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February 23, 2006

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Anthony P. Curtis, Ph.D., Reg. No. 46,193

Name of applicant, assignee or  
Registered Representative

Signature

2/23/06  
Date of Signature

Our Case No. 9281-4603  
Client Ref. No. N US02004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Naoya Hasegawa et al.

Serial No. 10/619,341

Filing Date: July 14, 2003

For: MAGNETIC SENSOR WITH SECOND  
ANTIFERROMAGNETIC LAYER  
HAVING SMALLER DEPTH IN HEIGHT  
DIRECTION THAN FREE LAYER

Examiner: Heinz, Allen J.

Group Art Unit No.: 2653

## AMENDMENT

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated November 30, 2005, please amend the application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** begin on page 3 of this paper.

**Remarks** begin on page 5 of this paper.